

Parkland College

Biology Courses

Natural Sciences Courses

2015

Biology 122 Anatomy and Physiology II Summer 2015

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BIOLOGY 122 COURSE SYLLABUS AND OVERVIEW: Spring 2015

Biology 121 and 122 are transfer level courses designed to give you an understanding of the structure and function of the human body. Biology 122 provides detailed analysis of senses organs; the endocrine, cardiovascular, lymphatic, respiratory, urinary, reproductive, and digestive systems; nutrition, metabolism, the integument, and human development. Laboratory exercises offer concrete examples of concepts and stress basic skills and careful observation. We use human cadavers (Veterinary Technology students use cats).

PREREQUISITE FOR BIO 122

Completion of BIO 121 with a C or better OR permission of the Natural Sciences Department Chair.

SPECIAL NOTE: If you are or become pregnant, you should consult your physician as to the advisability of participating in the cadaver portions of Biology 122.

REQUIRED BOOKS (available in Parkland Bookstore)

- Modules and Labs for Anatomy & Physiology I: BIO 121
- Visual A&P, Martini, Ober, Nath, and Petti; Pearson © 2015 (used for both BIO 121 AND 122)
- Mastering A&P (access code bundled with textbook)

RECOMMENDED RESOURCES (all bundled with new textbook)

- Martini's Atlas of the Human Body, Martini; Pearson© 2009
- Practice Anatomy Lab CD, Pearson
- Interactive Physiology 10-System Suite CD, Pearson
- Get Ready for A&P (Bio 121), Garrett; Pearson, © 2013

LECTURE INSTRUCTOR INFORMATION

Name: _____
Office: _____
Office hours: _____
Phone: _____
E mail: _____

Administrative Assistant: 217-351-2285

ROOM NUMBERS

Anatomy/Physiology Lab: X101
Cadaver Labs: L248, L253
Anatomage Room: L245
Natural Sciences Testing Center: L161
Natural Sciences Dept.: L120

LAB INSTRUCTOR INFORMATION (If different)

Name: _____
Office: _____
Office hours: _____
Phone: _____
E mail: _____

COURSE POLICIES

In accordance with College policy, children and visitors may not be brought to the classroom or lab.

DISABILITY STATEMENT

If you believe you have a disability for which you may need an academic accommodation (e.g. an alternate testing environment, use of assistive technology or other classroom assistance), please contact Cathy Robinson, Director of Disability Services, Room U264, 217-353-2082, crobinson@parkland.edu. *No accommodations can be offered if you are not registered each semester with the Office of Disability Services.*

Students with approved accommodations through the Office of Disability Services are expected to meet privately with instructors *each semester* to discuss accommodations listed on their Disability Services ID card. (e.g. extended time on exams, notes, etc.) That personal introduction officially marks the beginning of your accommodations for the semester. Instructors should be allowed to view your Disability Services ID card and note approved accommodations.

Extended-Time Testing Accommodations are not accessible in the classroom. Students must schedule tests/quizzes by calling Disability Services at 353-2338, or visit them in U264. Extended time on lab practicals must be scheduled outside of the standard practical exam schedule, and at the convenience of the course instructor.

ELECTRONIC DEVICES

Mobile phones, pagers, and all other electronic devices must be **TURNED OFF** and **PUT AWAY** when in the classroom or lab unless your instructor tells you otherwise. These items are not permitted to be brought inside the Testing Center at all. Mobile phones must be turned off and put out of reach when you are in the cadaver labs. Anyone in physical possession of a mobile phone in cadaver lab will be written up for Student Misconduct and subject to disciplinary action (see specific policies about the cadaver lab).

ATTENDANCE AND ABSENCES

You are expected to attend all class sessions. To succeed in BIO 122, regular on-time attendance is extremely important. In case of illness or other emergency, you should call your instructor or the Department's Administrative Assistant, in advance if possible, and report your absence. Your instructor will decide whether to excuse it.

DROPS AND WITHDRAWALS

I am required to assess your attendance immediately after the first weeks of the semester. If you have not attended to that point, you will be dropped with no refund of tuition and fees. For the remainder of the semester, it is **YOUR RESPONSIBILITY** to withdraw from the course if you do not intend to complete it. Although I retain the right to drop you from the course due to any misconduct, you are ultimately responsible for your own withdrawal before the final withdrawal date (5/1/2015 for this course). **Non-attendance will usually result in an F if you don't withdraw yourself.**

HOMEWORK /ASSIGNMENTS

BIO 122 consists of 11 modules of study. A set of specific learning objectives is included with each module. These are found in the module book required for this course. The module assignment, including readings and supplementary resources, is listed at the beginning of the module. You are expected to complete all readings and assignments on your own time. You should expect to spend at least 6 to 12 hours of study per week outside of class time. Class time is meant to introduce or summarize concepts— you are expected to study your course materials and assignments to master the content of each class session prior to the next class meeting, and *you should arrive at each class with full knowledge of previous course content* and prepared to move on to new material. This is referred to as “keeping up” with the course. Failure to “keep up” on a daily basis leads to you having far too much material to try to learn in a short period of time, and you will greatly reduce the likelihood of your success.

STUDY RESOURCES

- Readiness evaluations to test your knowledge (these are not graded) are located online and at the end of each module in the Module book. Answers to readiness evaluations may be viewed online or in X101.
- Supplemental resources in this course are of great value and provide tutorials, activities, animations, and practice quizzing. Please explore these items often.
 - *Biology 122 Modules* book is your guide to the course. Each module includes learning objectives that you should use as your study guide to the course content, reading assignments, and additional information that is part of the course. It also includes Readiness Evaluations for self-quizzing. The back part of the book has lab instructions, procedures, and reports that you will need with you each week in lab, and also includes lists of specific structures for which you will be responsible on each lab practical.
 - *Atlas of the Human Body* is a great picture atlas to help you study cadaver anatomy for lab practical exams.
 - *Practice Anatomy Lab* (PAL) contains images to help you study the anatomy for labs and for practical exams, and includes substantial opportunities for self-quizzing. This resource includes both models and cadaver images.
 - *Interactive Physiology* provides interactive lessons and tutorials with many animations.
 - *Mastering A&P* gives you access to these and many other resources, such as games and flashcards, and assorted coaching exercises, and is designed to help you truly master the course content.
 - *Get Ready for A&P* is an engaging source for simple explanations and review activities in 6 areas: Study and Organizational Skills, Basic Math, Terminology, Body Basics, Chemistry, and Cells—a quick way to improve your study habits or brush up on material that is foggy from 121 that you need to recall in 122. Please work through chapter 1 so that you gain insight into how you now study and how you might study more effectively and more efficiently.
- You should keep all of your module and lecture notes as you progress through the BIO 121/122 sequence. They will be important review/reference materials.

COURSE MANAGEMENT SYSTEM:

- Bio 121 & 122 courses use Cobra Learning, which is accessible via <http://my.parkland.edu>. The course website contains course information, readiness evaluations, a practice final, and links to many other tutorials and animations relative to course concepts. Your grades will also be recorded in Cobra Learning and you can communicate with me via email from our course site as well.

USE OF TEXTBOOKS

Always use the learning objectives in your module/lab book as a guide for what to study and learn in this course. This should be your starting point. The module/lab book contains information that will help you answer certain objectives, but you will also need to study your anatomy and physiology textbook, completing all assigned readings, throughout BIO 122. **You are expected to complete all readings as assigned.** Powerpoints and lecture notes alone are not sufficient for completing the course.

LABS

- Your course includes lecture, discussion, and lab components. Traditional courses meet for 50-minutes of lecture 3 days each week, one hour of discussion, and a 2-hour lab once a week. If you are enrolled in a single section that combines lab and lecture (hybrid, MW, or TTh sections), the amount of time you spend in each and what part of your class time will be held in which location is at the discretion of your instructor. Laboratory rules are posted in the lab and in your module book and must be observed at all times. Special lab rules apply to the cadaver lab. Please see those posted in the Course Information section of this course in Cobra Learning.
- Studying in pairs or small groups with other students is encouraged. An instructor will always be present during lab to assist you.
- Students must be on time for each lab. Vital instructions are provided at the beginning of lab, and that time is also often used for returning previous labs.
- Lab reports are typically due at the beginning of lab the following week. Your instructor is not required to accept any late lab reports. If a late lab report is allowed, the maximum points possible may be reduced by 10% per day that it is late, beginning immediately after the lab session during which it was due.
- There will be NO make-up on missed labs.

Lab Points and Grading: Many laboratory activities do not require that you hand in anything for grading. Some labs, however, will be graded through an oral exam, written exam, or an assignment/lab report that will be turned in to or performed for your instructor as follows:

Oral Exams: Senses Lab (eye and ear), Heart Dissection

Lab Assignments/Reports: Cardiovascular physiology, Respiratory, Urinalysis, Endocrine, Human Development

Practical Exams: Cardiovascular, Respiratory, Digestive, Urinary/Reproductive/Endocrine Systems

CADAVER LAB

Cadaver labs are located in L248 and L255. Our cadavers are preserved in a phenol/alcohol/water solution. See note concerning pregnancy on page 1 of this overview. Please remember when using the cadaver lab to not wear your best clothes. Natural fibers can pick up the odor of phenol (washing will remove odor). Gloves are provided in lab. *If you have an allergy to latex, be sure your instructors know and be sure to use only non-latex gloves.*

The cadavers are used by many students from many classes each semester. They are valuable learning tools that few anatomy students have access to. In order to maintain them, it is important to remember to always treat the cadavers with respect and be very gentle when using them as study tools. Please read the cadaver care rules posted in the labs and in the Course Information section in Cobra Learning and adhere to them at all times.

Parkland is very fortunate to have a cadaver program and any behavior that may jeopardize the program or show disrespect for the donors and their successors will be taken most seriously. To ensure the professionalism of the program, special policies have been developed for the cadaver labs. These are posted in lab and in the Course Information section of Cobra Learning. **Any breach of these cadaver lab policies will result in you being written up through the Documentation of Student Conduct form, which will be submitted to the Natural Sciences Department Chair and the Dean of Academic Services.** Such an incident may result in serious disciplinary action, which may include dismissal from a college program as well as expulsion from the college.

ANATOMAGE DIGITAL DISSECTION TABLE

Parkland is extremely fortunate to have procured an Anatomage Digital Dissection table which is housed in room L245. This cutting-edge technology will be used to enhance your anatomy education. The table is essentially a very high-end computer system. Whenever you are in the Anatomage room, you must use extreme caution around the table. Absolutely no food or drink is permitted in room L245. Never lean on or place any objects on the table. Be very careful of the power cord that projects from one end of the table, as it poses a potential tripping hazard. Follow all instructions provided by your instructor at all times when in room L245. Failure to follow posted rules may result in disciplinary action.

DISCUSSION

You will spend one hour each week in a discussion/collaboration session, usually immediately before your lab. This time will be used to complete a variety of activities—group activities, worksheets, case studies, and open discussion within your group and with your instructor—to enhance your learning by providing practice with and application of course content. This time is flexible, and each instructor will tailor the experience from week to week based on the progress and needs of your particular section. Please bring any questions about course content with you to the discussion class.

COURSE TESTING

1. Module Quizzes. Module objectives are evaluated using quizzes consisting of multiple choice, true-false, and matching questions. All module quizzes are taken in the Natural Sciences Testing Center (L161) and on your own time. **Day students must take quizzes only during the day (before 4 PM Monday through Thursday and by 3 PM on Fridays).**

You are allowed only one attempt for each module quiz. Most quizzes will be open for three or four days, which are posted on the schedule. **There will be NO extensions allowed and NO late takes on quizzes.** If you are absent for ANY reason, excused or not, you will forfeit that quiz. However, to offset that, we drop one lowest quiz score at the end of the semester.

After taking each quiz, you should review your answers with your instructor during his or her office hours.

2. Testing Center. When using the Testing Center, you are expected to follow the Testing Center Rules that are posted in Cobra Learning. In consideration of students taking quizzes, do not sit, stand, talk, or study in the hallway outside the Testing Center. No cell phones are permitted in the Testing Center at any time, and they will be confiscated if brought in. All belongings must be locked in the lockers outside the testing center. The lockers are free, but you must bring a quarter to open the locker. It will be returned when you return the key. Do not leave items unsecured in the hallway or in the lockers. Parkland is not responsible for any unsecured items that disappear.

Do not ask Testing Center personnel to show you your grades. Each student is responsible for keeping a record of his/her own grades, and grade questions should always be directed to your instructor.

3. Exams. Two 50-minute (hour) examinations are given in Biology 122 during lecture class as indicated on the course schedule posted in Cobra Learning.
4. Practical Exams. Anatomical structures are evaluated by practical examinations. Practicals begin promptly at the scheduled time. If you arrive late, you will not be permitted to enter the exam. Thus, **you must arrive at least five minutes before the exam begins.** If you miss your scheduled time or are late, please know that there are limited spots available and only at specific times. *You are not guaranteed a makeup time if you fail to show up when you are scheduled or arrive after the exam is in progress.*

During the practical, you rotate through timed stations to answer questions. For your answers, terms must be complete and spelled correctly as listed in your module book. Minor misspelling counts 1/2 point per item on all practical exams, however we do not count off for singular vs. plural. Precise and accurate use of anatomical, physiological, and medical terminology both in oral and written form is essential for most Health Professions programs, and thus an important skill to master.

Availability of anatomical materials: No laboratory materials, equipment, or specimens (microscopes, models, cadavers, etc.) will be available on the day(s) of a practical.

5. Returning Tests. Essay exams, practical exams, and lab reports are reviewed in class or lab. Students who are absent when papers are reviewed must contact their instructor during office hours to see the item. After review, all papers are sent to the Testing Center, so they are available for viewing only briefly.
6. Instructor Points. To keep the course relevant, encourage active engagement, and improve course assessment, your instructor will award up to 25 points for assorted additional assignments throughout the semester. The nature of these assignments is at the discretion of your instructor, with approval of the course coordinator, and may include such activities as pop quizzes administered at any time, writing assignments, group activities or discussions, analyzing external readings, etc. These points are part of your course grade and are not extra credit or bonus points, nor are they meant to provide easy points to improve low grades. These activities may or may not be announced in advance—you are expected to

always attend class prepared, and to have mastered material from previous lectures. If you ever feel these points are used improperly, discuss it with your instructor.
7. Final Exam. A comprehensive 100-question multiple-choice final exam is given according to the College Final Exam schedule.

Final Exam “A Exemption”: If you meet certain criteria throughout the semester that demonstrate your mastery of course content, you may not have to take the final exam.

If you:

- Have at least 90.0% (no rounding) overall in the class before the final exam AND
- have received scores of at least 27/30 points (90%) on EACH of the 2 written hour exams AND
- have scored at least 27/30 points (90%) on at least 3 of the four lab practicals and no lower than 24/30 points (80%) on the other lab practical,

THEN

...you will not be required to take the final exam and will retain your “A” in the class.

This is an ABSOLUTE policy—there will be no exceptions. ALL three criteria must be fully met to attain this exemption.

MAKE-UP POLICIES

- There are no makeups for missed labs.
- There are no make-ups on missed module quizzes or practical examinations.
- If you must miss an hour exam, you must notify your instructor ***prior to the scheduled time of the exam.*** At that time, your instructor will determine whether or not to excuse your absence. A makeup exam will be scheduled *only if you have contacted your instructor in advance AND if your instructor agreed to excuse your absence.* Documentation of the reason for your absence may be required. Makeup hour exams will be scheduled in the Testing Center as soon as possible after the absence so as not to delay return of exams to the rest of the class. Makeups should be completed within two days of the original exam time.
- Students taking the hour exam in the Office of Disability Services must schedule their exam at the same time that the class is taking the exam.
- Module quizzes will be open for multiple days, as posted on the course schedule. You are allowed only one attempt at each module quiz and it may be completed at any time while the quiz is open (during normal Testing Center hours) up to but not after the quiz deadline. Day students are only allowed to take quizzes in the Testing Center during daytime hours. Because each quiz is open for several days, **no make-ups are given for missed module quizzes for any reason, excused or unexcused.** However, to offset this, your one lowest quiz score will be dropped from your final grade.

- No make-ups will be given for missed instructor point assignments except under serious extenuating circumstances. Your instructor will decide on a case-by-case basis if you will be allowed a makeup. Make ups will not be allowed simply because you were absent the day of an assignment. For example, if you are absent without a serious reason when a pop quiz is administered, you forfeit those points.

FINAL GRADE

Your final grade is determined by the total points you earn throughout the semester in accordance with the grading scale at the end of this document. Bonus points are possible on some exams throughout the semester as follows: each lab practical—1 bonus point, each hour exam—3 bonus points. However ***no additional extra credit or bonus is available***. In computing your final points, your highest 10 module quiz scores will be used (one lowest score is dropped). In writing any type of test, you are expected to follow directions exactly. Failure to do so may result in loss of points. The number of points for each test and criteria for final grades are detailed below. Final grades are based entirely on the total points you earn during the semester and will not be rounded up, nor will any extra credit be allowed to artificially increase your total. You get the grade that you earn by your effort in the course.

ACADEMIC HONESTY AND INTEGRITY

Plagiarism: You are expected to prepare all answers in your own words (use of *individual* technical terms from a text is acceptable). Plagiarism (copying text information directly) will not be tolerated or accepted. Not only does it demonstrate a lack of learning, but it is illegal. Although we encourage students to work in groups, you must each prepare your own answers separately and in your own words. This includes answers on lab assignments. Student answers that are copied from or are identical to those of other students, or copied directly from some other source including online sources will not be tolerated or accepted. Students who turn in such answers may receive a score of “0” for that assignment and may face additional disciplinary action by the college for plagiarism.

Cheating: Talking to another student about quiz or test questions of any type before all students have completed the quiz or test is not permitted and is regarded as a form of cheating. This includes discussing anything specific about the content of any module quiz, pop quiz, practical exam, hour exam, or final exam. Such discussion is considered cheating whenever it occurs—before, during, or after these quizzes or exams—if anyone could potentially be within hearing range of the information who is also a student in the course, and if it occurs at any time before all course students have completed that quiz or exam.

Please refer to the Academic Honesty Policy set forth in the “Student Policy and Procedures” Manual (see Syllabus Addendum). Incidents of plagiarism or cheating will result in penalties, as outlined in that document, which may include “...a failing grade for that assignment or failure of the course.” In addition, as the Policy further states, “The faculty member ... will file incident reports with the respective department chair and the Office of the Vice President for Academic Services.” If you are not clear on what constitutes plagiarism or cheating, be sure to discuss it with your instructor. Also refer to the Student Policy and Procedures Manual for more details.

GRADING SYSTEM

<u>Module Quizzes</u> (20 points on 10 quizzes; one lowest score out of 11 quizzes will be dropped) Modules B1 through B11	200 points
<u>Hour Exams</u> (30 pts. each) Exam I (Modules B2, B3, B4, B5) Exam II (Modules B6, B7, B8)	60 points
<u>Laboratories</u> (15 pts.) CV Physiology Lab (10 pts.) Endocrinology Lab (20 pts.) Respiratory System Lab Report (20 pts.) Urinalysis Lab Report (10 pts.) Human Development Lab	75 points
<u>Practical and Oral Exams*</u> (10 pts.) Eye/Ear Dissection/Senses Oral (10 pts.) Heart/Path of blood flow Oral (30 pts.) Cardiovascular System (30 pts.) Respiratory System (30 pts.) Reproductive/Urinary Systems (30 pts.) Digestive System	140 points
<u>Instructor Points</u> 25 points administered throughout the semester	25 points
Final Exam	100 points
TOTAL POSSIBLE	600 POINTS

* In lieu of human anatomy, students currently enrolled in the VTT program will study cat anatomy.

GRADING SCALE

FINAL GRADE	% required	TOTAL POINTS
A	90.0-100.0	540-600+
B	80.0-89.9	480-539.5
C	70.0-79.9	420-479.5
D	60.0-69.9	360-419.9
F	Less than 60.0	Less than 360

(Revised 1/8/2015)